

ABSTRACT OF THE DISCLOSURE

Industrial equipment is monitored by at least one industrial controller
5 assigned to each group of industrial equipment. A plurality of queues is established
by logic within one of the industrial controllers for each group. Each queue holds
a number of event records. Logic is established in each industrial controller for
detecting a predetermined event and for storing an indication of the detected event
associated with a time stamp as an event record in a queue associated with the
10 predetermined event. A group computer is interconnected with each industrial
controller in the group through a data communication network. A scan rate is
established for each queue in that group. Event records are periodically read from
each queue based on the scan rate for that queue. The event records for all queues
in a group are accumulated by the group computer and forwarded to a server. The
15 group computer may dynamically set the scan rate and/or the queue length for each
queue based on records read from the queue.